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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/529,206	06/13/2000	RONG FU WANG	2026-4269US1	1577	
75	90 04/22/2002				
WILLIAM S FEILER MORGAN & FINNEGAN 345 PARK AVENUE			EXAMINER		
			DAVIS, NATALIE A		
NEW YORK, N	NY 10154		ART UNIT PAPER NUMBER		
			1642 DATE MAILED: 04/22/2002	19	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner			Application No.		Applicant(s)				
## Deficie Action Summary  ## Deficie Summary  ##			09/529.206		WANG ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ± MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of the may be available under the provisions of \$7 CPR 1.136(a). In no event, however, may a reply be timely flied  ### the packed for reply specialised above is less than thirty (30) days, and provisional or the packed for reply specialised above is less than thirty (30) days, and provisional or the packed for reply specialised above is less than thirty (30) days, with be considered timely.  #### If the packed for reply specialised above is less than thirty (30) days, with be considered timely.  #### If the packed for reply specialised above is less than thirty (30) days, with be considered timely.  #### If the packed for reply specialised above is less than thirty (30) days, with be considered timely.  ##### If the packed for reply specialised above is less than thirty (30) days, with be considered timely.  ###################################		Office Action Summary			Art Unit				
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensive for term may be available under the provision of 3° CFR 1.75(a), in no event, however, may a reply be timely field  Extensive for term may be available under the provision of 3° CFR 1.75(a), in no event, however, may a reply be timely field  If the paried for reply specified above is less than thirty (30 days, a neply whin the statutory minimum of them to mailing date of this communication.  Final to may whin the set of extended period for reply will, by statute, cause the application to become AANDONED (55 13 C, § 133), and the search of particle to may whin the set of extended precision of the mailing date of this communication.  Final to may whin the set of extended precision of the mailing date of this communication, even if them yield, may reduce day?  **Status**  1) **Exponsive to communication(s) filed on **Ode February 2002**  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) **Claim(s)** 1-66 is/are pending in the application.  4a) Of the above claim(s)				sheet with the co	rrespondence address	_			
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be willbed under the provision of 3 CFR 1.15(g). In no event, however, may a reply be limitly filed after SX (8) MONTHS from the mailing date of this communication.  If the purpod to mely specified above is less than thrifty (3) days, a reply within the saturbury minimum of thirty. (3) days will be considered films).  Failure to reply within the set of extended pended for reply will, by statutory minimum of thirty. (3) days will be considered films).  Failure to reply within the set of extended pended for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 130).  Any reply received by the Official extend their term films after the mailing date of this communication, even if timely filed, may reduce any examine patient term adjustment. See 37 CFR 1.79(b).  Status  1)  Responsive to communication(s) filed on 04 February 2002.  2a)  This action is FINAL.  2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)  1-66 is/are pending in the application.  4a)  Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed.  6)  Claim(s)  is/are rejected.  7)  Claim(s)  is/are rejected.  7)  Claim(s)  is/are rejected.  10)  The drawing(s) filed on  is/are: a)  accepted or b)  objected to by the Examiner.  Application Papers  9)  The specification is objected to by the Examiner.  Application Papers  9)  The proposed drawing correction filed on  is/are: a)  accepted or b)  objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  3)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3)  Acknowledgm		• •							
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15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	14)⊠ A	cknowledgment is made of a claim for domest	tic priority under 3	5 U.S.C. § 119(e)	(to a provisional application).				
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)	Attachment	(s)							
	2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	-,	Notice of Informal Pa					

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## **DETAILED ACTION**

Applicant's election with traverse of Group I, claims 1-30, Species C in Paper No. 18 drawn to SEQ ID NO: 4 is acknowledged. Upon further review by the examiner, it is noted that no claims are drawn to DEQ ID NO:4. The claims as originally presented are drawn to portions of SEQ ID NO: 4 (see claim 3). In view of this the restriction mailed 10 December 2001 is hereby vacated and the following restriction is presented.

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-30, drawn to a cancer peptide, pharmaceutical composition, and immunogen.

Group II, claim(s) 31-46, 48, 50-51, 65 drawn to a nucleic acid, vector, host organism, oligo, recombinant virus, method of making a protein, and pharmaceutical composition.

Group III, claim(s) 47, 49, drawn to an antibody.

Group IV, claim(s) 52-54, drawn to a method of detecting cancer or precancer using mRNA.

Group V, claim(s) 55, drawn to a method of detecting a CAG-3 genomic nucleic acid sequence.

Group VI, claim(s) 56, drawn to a method of detecting a cancer peptide.

Group VII, claim(s) 57, 60, 62, drawn to a method of preventing or inhibiting cancer by administering a cancer peptide.

Group VIII, claim(s) 58, 61, drawn to a method of inhibiting melanoma in vitro by administering cancer peptide specific T lymphocytes.

Group IX, claim(s) 59, drawn to a method of detecting cancer using a protein and antibody.

Group X, claim(s) 63, drawn to a method of preventing or inhibiting cancer by administering the recombinant virus of claim 43.



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Group XI, claim(s) 64, 66-67, drawn to a cancer antigen.

2. In the event applicant elects Group I, claims 1-30, applicant is required to elect a single species of cancer peptide comprising:

Species A, drawn to SEQ ID NO: 2 Species B, drawn to SEQ ID NO: 3 Species D, drawn to SEQ ID NO: 5 Species E, drawn to SEQ ID NO: 51 Species F, drawn to SEQ ID NO: 25 Species G, drawn to SEQ ID NO: 39 Species H, drawn to SEQ ID NO: 26 Species I, drawn to SEQ ID NO: 45 Species J, drawn to SEQ ID NO: 15 Species K, drawn to SEQ ID NO: 47 Species L, drawn to SEQ ID NO: 46 Species M, drawn to SEQ ID NO: 14 Species N, drawn to SEQ ID NO: 34 Species O, drawn to SEQ ID NO: 35 Species P, drawn to SEQ ID NO: 36 Species Q, drawn to SEQ ID NO: 37 Species R, drawn to SEQ ID NO: 38 Species S, drawn to SEQ ID NO: 41 Species T, drawn to SEQ ID NO: 42 Species U, drawn to SEQ ID NO: 46 Species V, drawn to SEQ ID NO: 47

Species A-V are patentably distinct based on structural and functional differences and mode of action, as species may target different receptors.

3. In the event applicant elects Group II, claims 31-46, 48, 50, 65, applicant is required to elect a single species of nucleic acid comprising:

Species 1, drawn to SEQ ID NO: 3 Species 2, drawn to SEQ ID NO: 25 Species 3, drawn to SEQ ID NO: 47 Species 4, drawn to SEQ ID NO: 46

Species 1-5 are patentably distinct based on structural and functional differences and mode of action, as species may target different receptors.

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4. The inventions listed as Groups I-XI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The inventions have been found by the examiner to have no special technical feature that defined a contribution over the prior art because the cancer peptide of SEQ ID NO:2 is known in the prior art (Chen, et al., Proc. Natl. Acad. Sci. USA, 1997, 94:1914-18). Since the inventions do not contribute a special technical feature when viewed over the prior art, they do not have a single inventive concept and lack unity of invention.

- 5. Inventions I-III, XI (products) and IV-X are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the antibody composition of Group III does not have to be used in the process of Group IIX, it may be used for immunopurification. Likewise, the nucleic acid of Group II does not necessarily have to be used in the methods of Groups IV-V and X, but may be used to make a protein. Furthermore, the peptides of Group I may be used to affinity purify an antibody and not in the methods of Groups VI-IX.
- 6. The products of Groups I-III, XI are drawn to structurally and functionally different molecules with different immunological properties, each invention requires different reagents and steps to make and characterize it.
- 7. The products of Groups IV-X are drawn to structurally and functionally different molecules with different immunological properties, each invention requires different reagents and steps to make and characterize it.
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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9. Applicant is advised that the response to this requirement, to be complete, must include an election of the invention to be examined even though the requirement be traversed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie A. Davis whose telephone number is 703-308-6410. The examiner can normally be reached on M-F 8-5:30 (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa can be reached on 703-308-3995. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4315 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Natalie A. Davis, Ph.D. April 19, 2002

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